

## United States Department of Agriculture

SERVICE AND REGULATORY ANNOUNCEMENTS  
BUREAU OF ANIMAL INDUSTRY

MAY, 1930

[This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the bureau, establishment at which the Federal meat inspection is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 25 cents a year. A supply will be sent to each official in charge of a station or branch of the bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.]

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## CHANGES IN DIRECTORY

## Meat Inspection Granted

419-R. The Great Atlantic & Pacific Tea Co., State Street and Pennsylvania Railroad; mail, P. O. box 1447, Indianapolis, Ind.  
910. Pineus & Batt (Inc.), 307 Callowhill Street; mail, 218 Callowhill Street, Philadelphia, Pa.

## Meat Inspection Withdrawn

225. Superior Packing Co. (Inc.), 742-744 West Forty-fifth Street, Chicago, Ill.  
761. Roma Provision Co. (Inc.), New York, N. Y.  
    From subsidiary: R. Marston Co., under establishment 1020, Boston Food Products Co.

## Horse-Meat Inspection Withdrawn

E-91. Holland-American Operating Co., Great Falls, Mont.

## Meat Inspection Extended

2-P. Armour & Co., Chattanooga, Tenn., to include The North American Provision Co. and Hammond Packing Co.  
71. Swift & Co., Jersey City, N. J., to include Underwood Packing Co.

## Change in Name of Official Establishment

72-B. Nevada Packing Co., Fourth and Alameda Streets; mail, P. O. box 750, Reno, Nev., instead of Western Meat Co.  
552. Hebrew National Kosher Sausage Factory (Inc.), 155 East Broadway, New York, N. Y., instead of Hebrew National Kosher Sausage Factory.

## New Station

St. Albans, Vt., Canadian import and export inspection, Dr. H. M. Smith, in charge.

## Change of Official in Charge

Dr. J. A. Thompson succeeds Doctor Kitzhofer as inspector in charge at Grand Forks, N. Dak.

Dr. J. H. Kitzhofer succeeds Doctor Johnson as inspector in charge at West Fargo, N. Dak.

Dr. B. C. Johnson succeeds Doctor Stingley as inspector in charge at Albert Lea, Minn.

Dr. O. A. Stingley succeeds Doctor Bingham as inspector in charge at Topeka, Kans.

Dr. F. S. Bingham succeeds Doctor Smith as inspector in charge at Providence, R. I.

## { Corrections in New Directory

Page 1. Arlington, L. I., should be Arlington, S. I. (Staten Island.)

Page 22. Add establishment 294, Joseph S. Stein & Co., 705 Callowhill Street, Philadelphia, Pa.

Page 27. Under establishment 680, Armour & Co., H. H. Stanton Co. should be E. H. Stanton Co.

## NOTICES REGARDING MEAT INSPECTION

## ANIMAL CASINGS OF FOREIGN ORIGIN

Certificates required by B. A. I. Order 305 and instructions issued thereunder, which bear the official title of the high official of the foreign country as specified below, will be acceptable with animal casings offered for importation into the United States.

The certificates must also bear the signature of the high official of the national Government having jurisdiction over the health of animals in the foreign country in which the casings originated, but owing to the fact that the high officials are changed from time to time it is impracticable to publish their names.

Official title	Foreign country
Minister of the Interior	Sweden.

## ANIMALS SLAUGHTERED UNDER FEDERAL MEAT INSPECTION, APRIL, 1930

Station	Cattle	Calves	Sheep	Goats	Swine
Baltimore	5,608	1,407	410		55,122
Buffalo	7,596	2,876	6,671		67,548
Chicago	117,309	66,933	242,637	1	468,306
Cincinnati	11,486	9,618	6,022	2	75,464
Cleveland	5,878	6,397	11,684		54,646
Denver	6,657	1,655	23,511		26,902
Detroit	6,136	7,778	7,131	1	67,227
Fort Worth	18,291	8,981	25,390	89	39,577
Indianapolis	15,386	6,527	4,654		99,041
Kansas City	60,547	16,034	173,498	22	198,146
Milwaukee	13,878	72,927	3,760		101,484
National Stock Yards	24,005	15,394	23,231		92,717
New York	31,037	64,067	219,157	19	94,798
Omaha	67,463	4,703	209,631	4	180,489
Philadelphia	4,747	8,137	15,909		76,737
St. Louis	10,628	8,927	4,229		123,416
Sioux City	33,141	1,579	62,174	4	106,795
South St. Joseph	20,241	5,633	131,867	5	68,283
South St. Paul	41,703	58,921	21,382		184,733
Wichita	5,599	1,811	15,262	6	55,804
All other stations	127,651	84,330	178,339	417	1,243,180
Total: April, 1930	634,987	454,635	1,386,549	570	3,480,415
April, 1929	662,382	460,297	1,118,935	1,924	3,761,230
10 months ended April, 1930	6,937,371	3,714,548	12,642,209	19,873	39,177,391
10 months ended April, 1929	6,971,749	3,755,351	11,459,228	16,743	39,610,035
New York, Brooklyn, Jersey City, and Newark <sup>1</sup>	37,383	71,822	264,489	68	194,142

<sup>1</sup> The slaughter figures in this group of cities are included in the figures above for New York and all other stations and are combined here to show total in the Greater New York district.

Horses slaughtered in April, 1930.	6,405
Horses slaughtered in April, 1929.	4,212
10 months ended April, 1930.	113,841
10 months ended April, 1929.	98,288

Inspections of lard at all establishments, 134,557,749 inspection pounds; compound and other substitutes, 36,868,854 inspection pounds; sausage, 59,834,807 inspection pounds; oleomargarine, 13,148,833 inspection pounds.

Corresponding inspections for April, 1929: Lard, 152,113,709 inspection pounds; compound and other substitutes, 33,542,711 inspection pounds; sausage, 63,565,410 inspection pounds; oleomargarine, 13,572,042 inspection pounds.

(These totals of inspection pounds do not represent actual production, as the same product may have been inspected and recorded more than once in the process of manufacture.)

### EXTENT OF TUBERCULOSIS IN ANIMALS SLAUGHTERED AT THREE IMPORTANT MARKETS, APRIL, 1930

Kind and station	Total slaughter	Retained for tuberculosis		
		Total	Passed for cooking	Condemned
<b>Cattle:</b>				
Chicago	117,309	4,580	103	475
Kansas City	60,547	277	5	27
Omaha	67,463	744	25	57
<b>Swine:</b>				
Chicago	488,306	67,981	932	730
Kansas City	198,146	11,018	124	103
Omaha	180,489	17,523	193	149

### CAUSES OF CONDEMNATION OF CARCASSES, MARCH, 1930

Cause	Cattle	Calves	Sheep	Swine
Emaciation	453	145	295	48
Hog cholera				818
Inflammatory diseases	1,082	268	449	2,660
Immaturity		677		
Tuberculosis	1,876	36		2,770
All other causes	916	205	534	3,746
Total	4,327	1,331	1,278	10,042

### IMPORTS OF FOOD ANIMALS AND OF MEATS AND MEAT FOOD PRODUCTS

The statements following show the imports of food animals and of meats and meat food products inspected by the Bureau of Animal Industry during April, 1930, with figures for other periods for comparison.

#### *Imports of food animals*

Country of export	Cattle	Swine	Sheep	Goats
Mexico	47,214		2,186	
Canada	7,926	26	20	2
Channel Islands	396			
England	19		133	
Scotland	33		12	
Virgin Islands (to Porto Rico)	381			
<b>Total:</b>				
April, 1930	55,969	26	2,351	2
April, 1929	99,652	65	11,735	16
10 months ended April, 1930	352,591	2,061	7,807	148
10 months ended April, 1929	471,321	2,880	34,947	243

## Imported meats and meat food products

Country of export	Fresh and refrigerated		Cured and canned	Other meat products	Total weight
	Beef	Other			
	Pounds	Pounds			
Argentina			4,485,495	2,300	4,487,795
Australia	61,226	23,492		14,433	99,151
Brazil			190,701	30,240	220,941
Canada	334,232	369,650	589,331	263,520	1,556,733
New Zealand	376,406	10,672			387,078
Paraguay			434,599		434,599
Uruguay			3,163,583	34,398	3,197,981
Other countries	422,742		226,789	122,896	772,427
Total:					
April, 1930	1,194,606	403,814	9,090,498	467,787	11,156,705
April, 1929	4,014,858	1,612,591	9,144,678	922,836	15,694,963
10 months ended April, 1930	22,876,496	5,368,925	77,470,437	7,436,932	113,152,790
10 months ended April, 1929	46,006,508	12,165,306	71,501,241	9,694,061	139,367,116

Condemned in April, 1930: Beef, 295 pounds; pork, 12 pounds; total, 307 pounds.  
Refused entry: Pork, 26 pounds.

## SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH STATES, APRIL, 1930

State	Tuberculin tests during month			Total to date			Inspector in charge	State official
	Herds or lots	Cattle tested	Cattle re-acted	Once-tested free herds	Accredited herds	Herds under supervision		
Ala	1,900	13,288	0	8,905	317	11,492	R. E. Jackson	C. A. Cary, Auburn.
Ariz.	393	5,020	39	8,366	46	8,454	F. L. Schneider	R. J. Hight, Phoenix.
Ark.	1,330	6,675	45	11,934	19	11,953	W. A. McDonald	J. H. Bux, Little Rock.
Calif.	396	19,917	94	7,311	135	7,707	R. Snyder	J. P. Iverson, Sacramento.
Colo.	43	951	12	1,476	182	2,061	W. E. Howe	C. G. Lamb, Denver.
Conn.	1,262	18,847	432	3,356	3,111	7,000	R. L. Smith	Charles Johnson, Hartford.
Del.	361	4,455	445	4,379	1,286	6,414	E. B. Simonds	O. A. Newton, Bridgeville.
D. C.	46	825	1	44	1	46	A. E. Wight	J. V. Knapp, Tallahassee.
Fla.	89	3,418	99	8,123	99	8,954	J. G. Fish	J. M. Sutton, Atlanta.
Ga.	1,941	5,978	3	43,070	31	43,104	A. L. Hirleman	A. J. Dickman, Boise.
Idaho	312	7,829	9	36,862	63	40,127	W. A. Sullivan	D. W. Robison, Springfield.
Ill.	9,086	97,912	1,328	19,398	5,566	168,990	J. J. Lintner	Frank H. Brown, Indianapolis.
Ind.	3,366	29,337	74	146,717	22,130	170,846	J. E. Gibson	M. G. Thornburg, Des Moines.
Iowa	7,006	123,333	2,546	130,949	2,954	209,940	J. A. Barger	J. H. Mercer, Topeka.
Kans.	1,576	20,658	91	102,597	597	103,373	N. L. Townsend	D. E. Westmorland, Frankfort.
Ky.	1,024	8,563	24	78,374	39	80,273	W. F. Biles	E. P. Flower, Baton Rouge.
La.	282	6,336	93	2,943	13	3,098	G. T. Cole	H. M. Tucker, Augusta.
Me.	319	5,178	27	42,778	952	43,817	G. H. Caldwell	James B. George, Baltimore.
Md.	1,575	17,741	415	16,359	8,937	32,601	E. B. Simonds	E. F. Richardson, Boston.
Mass.	609	9,959	1,036	2,943	1,763	6,003	E. A. Crossman	C. H. Clark, Lansing.
Mich.	6,466	56,256	233	183,427	79	185,070	T. S. Rich	C. E. Cotton, St. Paul.
Minn.	2,671	52,165	323	102,162	9,083	112,424	W. J. Fretz	G. B. Bradshaw, Jackson.
Miss.	366	2,511	1	9,923	28	9,951	H. Robbins	H. A. Wilson, Jefferson City.
Mo.	1,161	13,748	66	80,425	230	84,234	Ralph Graham	W. J. Butler, Helena.
Mont.	230	5,107	20	32,672	91	35,702	J. W. Murdoch	C. H. Hays, Lincoln.
Nebr.	3,137	40,114	325	77,598	120	78,376	A. H. Francis	Edward Records, Reno.
Nev.	216	4,374	6	1,992	16	2,301	L. C. Butterfield	A. L. Felker, Concord.
N. H.	1,292	15,717	233	3,297	4,268	7,997	E. A. Crossman	J. H. McNeff, Trenton.
N. J.	513	5,384	317	4,562	3,419	11,657	W. G. Middleton	Mat Keenan, Albuquerque.
N. Mex.	110	1,258	1	2,633	24	2,728	F. L. Schneider	

**SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION  
WITH STATES, APRIL, 1930—Continued**

State	Tuberculin tests during month			Total to date			Inspector in charge	State official
	Herds or lots	Cattle tested	Cattle re-acted	Once-tested free herds	Ac-credited herds	Herds under supervision		
N. Y.....	7,929	106,989	6,021	26,152	78,635	114,699	H. B. Leonard.....	E. T. Faulder, Albany.
N. C.....	202	2,443	2	256,619	305	256,924	W. C. Dendinger.....	William Moore, Raleigh.
N. Dak.....	1,499	32,968	197	56,159	5,322	67,798	H. H. Cohenour.....	W. F. Crewe, Bismarck.
Ohio.....	8,935	76,041	685	202,794	814	209,006	A. J. De Fosset.....	C. McCandless, Columbus.
Okla.....	83	4,061	22	3,054	96	3,164	L. J. Allen.....	C. C. Hisel, Oklahoma City.
Oreg.....	1,735	14,670	52	22,429	453	22,918	S. B. Foster.....	W. H. Lytle, Salem.
Pa.....	10,440	60,305	1,428	116,923	6,116	133,696	J. B. Reidy.....	T. E. Munce, Harrisburg.
R. I.....	103	1,992	100	249	134	713	E. A. Crossman.....	T. E. Robinson, Providence.
S. C.....	1,237	5,512	2	68,575	111	68,747	W. K. Lewis.....	W. K. Lewis, Columbia.
S. Dak.....	274	7,542	46	9,851	1,187	11,205	J. O. Wilson.....	T. H. Ruth, Pierre.
Tenn.....	1,303	12,483	10	70,523	128	70,750	H. L. Fry.....	J. M. Jones, Nashville.
Tex.....	367	7,717	43	82	402	571	H. L. Darby.....	N. F. Williams, Fort Worth.
Utah.....	1,241	8,330	50	12,254	99	12,637	F. E. Murray.....	W. H. Hendricks, Salt Lake City.
Vt.....	971	19,993	215	5,487	7,450	20,957	L. H. Adams.....	Edward H. Jones, Montpelier.
Va.....	2,470	15,408	53	52,251	972	53,492	R. E. Brookbank.....	H. C. Givens, Richmond.
Wash.....	1,179	16,994	182	45,291	93	49,398	J. C. Exline.....	Robert Prior, Olympia.
W. Va.....	1,952	10,599	31	60,135	628	61,939	H. M. Newton.....	John W. Smith, Charleston.
Wis.....	5,014	91,077	282	170,030	12,630	185,455	J. S. Healy.....	Walter Wisnicky, Madison.
Wyo.....	87	1,699	18	11,211	3	12,576	John T. Dallas.....	H. D. Port, Cheyenne.
Total.....	96,102	1,099,677	17,957	2,371,644	181,177	2,853,338		

**SUMMARY OF HOG-CHOLERA-CONTROL WORK, APRIL, 1930**

State	Bureau veterinarians engaged in work <sup>1</sup>	Meetings addressed	Premises investigated	Demonstrations		Autopsies performed	Farms quarantined or discarded	Farms cleaned and disinfected	Outbreaks reported to bureau veterinarians
				Number	Hogs treated				
Alabama.....	1	7	79	2					
Arkansas.....	1	1	45	3		1			23
California.....	1		3			3			2
Colorado.....	1,2	37	30			14			4
Florida.....	1,2	4	118	53	1,800	21			5
Georgia.....	1,3	1	124	13	204	2			17
Idaho.....	5	1	78						
Illinois.....	3	1	225	4	170	47	10	17	23
Indiana.....	2		138			14			14
Iowa.....	2	1	52			6			13
Kansas.....	1		48						
Kentucky.....	2,5	1	249			16		5	13
Louisiana.....	1		82	2	51				6
Maryland.....	2	2	265			10	13		24
Michigan.....	2		77	1	19	4			4
Mississippi.....	1,03	1	135	117	1,005	1			3
Missouri.....	1	2	94			6			9
Montana.....	1		2				2		1
Nebraska.....	14		14			7			3
North Carolina.....	16		3	2	264				
Ohio.....	1,5	9	113	2	60	10			15
Oklahoma.....	2		171	1	40	2	4		8
South Carolina.....	1		43	38	562	1			10
South Dakota.....	1		14	1	41	8			4
Tennessee.....	1		93			1			55
Texas.....	1		80			2	1		
Virginia.....	1	1	138	1	12	2			2
Washington.....	1,5		75			2	1		3
Oregon.....									
Wisconsin.....	1		17	1	23	8	3		3
Total.....	35,23	69	2,605	239	4,251	190	34	22	264

<sup>1</sup> Fractions denote men devoting part time to the work.

## ANTI-HOG-CHOLERA SERUM AND HOG-CHOLERA VIRUS PRODUCED UNDER LICENSES

	Total serum	Clear serum completed	Hyperimmune blood cleared	Simultaneous virus	Hyperimmunizing virus
	<i>C. c.</i>	<i>C. c.</i>	<i>C. c.</i>	<i>C. c.</i>	<i>C. c.</i>
April, 1930.....	70,060,452	54,357,220	73,929,009	3,689,560	18,027,083
April, 1929.....	86,162,166	56,813,443	81,110,057	3,973,607	23,705,101
10 months ended April, 1930.....	691,867,010	512,711,568	596,401,598	41,821,657	137,788,216
10 months ended April, 1929.....	765,403,574	578,132,328	686,566,479	46,137,449	170,636,491

### LICENSES ISSUED FOR BIOLOGICAL PRODUCTS, APRIL, 1930

License No. 158 was issued April 29, 1930, to Globe Laboratories, Fostepco Heights, near Fort Worth, Tex., for enteritis mixed bacterin (swine).

License No. 180 was issued April 19, 1930, to Klusmire Biologic Laboratories, 2509 O Street, Omaha, Nebr., for hemorrhagic-septicemia bacterin.

License No. 190 was issued April 4, 1930, to the National Drug Co., 5109 and 5111 Germantown Avenue, Philadelphia, Pa., and Swiftwater, Pa., for tuberculin.

License No. 191 was issued April 28, 1930, to Ashe Lockhart (Inc.), 800-804 Woodswether Road, Kansas City, Mo., for abortion bacterin (bovine); anticalfscour serum; mixed bacterin (cuniculi).

### FIELD ASSAY FOR PHENOL IN SERUMS AND VIRUSES

For the information of employees or other persons interested in the method used in the field for controlling the phenol content of serums and viruses, there is now available a General Description of the B. A. I. "P-2" Test for Phenol in Serums and Viruses, which supplements the Directions for Use previously issued.

### PERMITTED DISINFECTANTS

In accordance with the provisions of B. A. I. Order 309, governing the interstate movement of livestock, the bureau has issued the following permits in the general disinfection of cars, yards, and other premises:

#### DISTRIBUTOR

To Dr. David Roberts Veterinary Co. (Inc.), Waukesha, Wis., for the distribution and use of San-I-Sol under the name of "Germi-Sol." Germi-Sol is identical with San-I-Sol, manufactured by McLaughlin, Gormley King Co. 1715 Fifth Street SE., Minneapolis, Minn.

To Mooney-Mueller-Ward Co., 101 South Meridian Street, Indianapolis, Ind., for the distribution and use of Cresyline Cresol Compound under the name of "Mooney's Cresol Compound." Mooney's Cresol Compound is identical with Cresyline Cresol Compound, manufactured by the Hunt Manufacturing Co., of Cleveland, Ohio.

#### CHANGE IN SOURCE OF SUPPLY

To the Carbola Chemical Co. (Inc.), Natural Bridge, N. Y., for the distribution and use of Hexol under the name of "Carbola Liquid Disinfectant." Carbola Liquid Disinfectant is identical with Hexol manufactured by the Tar Products Corporation, Providence, R. I. On December 7, 1925, permission was granted to the said Carbola Chemical Co. (Inc.), for the distribution and use of Crestall Dip manufactured by Baird & McGuire (Inc.), of Holbrook, Mass., under the same trade name of "Carbola Liquid Disinfectant," which permission is hereby withdrawn at the request of the distributor and Hexol substituted in place thereof.

**LOCATING SOURCE OF COMMUNICABLE DISEASES THROUGH F. I. FORM 11-C REPORT**

In a number of instances the furnishing of an F. I. Form 11-C report has been of considerable value in locating premises where communicable diseases of livestock exist, especially tuberculosis, hog cholera, lip-and-leg ulceration, distomiasis, cysticercosis, etc. Inspectors in charge are directed to supply these reports whenever it is practicable to do so. The original should be forwarded to the bureau, one copy to the appropriate State official of the State of origin of the animals covered by the report and a copy should also be forwarded to the bureau inspector in charge of control of the disease in the State of origin covered by the report.

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**F. I. FORM 59-C SUPERSEDED BY P. S. FORM 59-C**

Form F. I. 59-C has been superseded by Form P. S. 59-C. The latter form should be used in reporting alleged violations of the 28-hour law and the quarantine regulations of the department.

A supply of the new form should be requested in the usual manner on the next requisition submitted, and when it is received the old forms on hand should be utilized as scratch paper.

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**DECLARATION REGARDING FOOT-AND-MOUTH DISEASE AND RINDERPEST IN FOREIGN COUNTRIES**

[The following statement, designated as Declaration No. 7, was issued May 17, 1930, by R. W. Dunlap, Acting Secretary of Agriculture]

The Secretary of Agriculture having so determined, it is hereby declared that Australia, Canada, the Channel Islands, Finland, Great Britain, Guam, Ireland (Northern Ireland and Irish Free State), Japan, Mexico, New Zealand, Norway, the Union of South Africa, the islands of the West Indies, the Falkland Islands, and the island of South Georgia in the South Atlantic Ocean, the Territory of Papua in British New Guinea and the Cook, Fiji, Fanning, Washington, Marquesas, Samoa (Navigators), Society, Tonga (Friendly), New Hebrides, Gilbert, British Solomon and Elllice groups of islands in the South Pacific Ocean are free from foot-and-mouth disease and rinderpest.

This declaration is made in accordance with section 2, regulation 7; section 2, regulation 8; section 2 (a), regulation 10; section 1 (a), regulation 12; and section 3, regulation 13, of the regulations governing the sanitary handling and control of hides, fleshings, hide cuttings, parings, and glue stock, sheepskins and goatskins and parts thereof, hair, wool, and other animal by-products, hay, straw, forage, or similar material offered for entry into the United States (B. A. I. Order 313), and will supersede Declaration No. 6 of this department, dated December 10, 1927.

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**NOTICE REGARDING MILITARY LEAVE**

In case of employees who are members of the National Guard, Officers' Reserve Corps, and Naval Reserve and who are called for military training in accordance with the provisions of paragraph 489 of the administrative regulations of the department, promptly upon their return to duty formal applications for such absence on the regular leave form (scratching out "annual—sick—without pay" and substituting "military"), accompanied by a certificate of attendance signed by the commanding officer, should be forwarded to the Washington office. In rendering time report to accompany the pay roll, such absence should be designated by M (military leave).

Attendance at citizens' military training camps is not authorized as military leave.



## RESULTS OF PROSECUTIONS FOR VIOLATIONS OF LAWS

Penalties and fines have been imposed in prosecutions for violations of regulatory laws, as reported to the bureau, as follows:

### Twenty-Eight-Hour Law

Richmond, Fredericksburg & Potomac Railroad Co., \$100 penalty.

### Livestock Quarantine Law

Baltimore & Ohio Railroad Co., interstate movement of infectious car (2 cases), \$200 fines.

E. B. Phillips, Greenville, Tex., interstate shipment of 45 cattle from Louisiana to Texas without prior tuberculin test, \$100 fine.

## NEW PUBLICATIONS OF THE BUREAU

[The bureau keeps no mailing list for sending publications to individual employees, but sends copies to officers in charge of stations and offices. These publications should be regarded as notification copies. So far as possible additional copies will be furnished on request]

Farmers' Bulletin No. 1549. Feeding Cattle for Beef. Revised by the author, W. H. Black, Animal Husbandry Division. Pp. 16, figs. 10.

Directory of the Bureau of Animal Industry. Corrected to April 1, 1930. Pp. 67.

## ORGANIZATION OF THE BUREAU OF ANIMAL INDUSTRY

*Chief:* JOHN R. MOHLER.

*Associate Chief:* U. G. HOUCK.

*Assistant Chief:* A. W. MILLER.

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